24x IDE CD-ROM Drive

Installation Guide

CREATIVE®

CREATIVE LABS, INC.

User's Guide

24x IDE CD-ROM

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- ❑ Reorient or relocate the receiving antenna.
- ❑ Increase the separation between the equipment and receiver.
- ❑ Connect the equipment into an outlet on a circuit different from that of the receiver connected.
- ❑ Consult the dealer or an experienced radio/TV technician for help.

Caution

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Notice for Canada

This apparatus complies with the Class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE "B" d'interference radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Safety Information

CAUTION: This device is intended to be installed by the user in a CSA/TUV/UL certified/listed IBM AT or compatible personal computer in the manufacturer's defined operator access area. Check the equipment operating/installation manual and/or with the equipment manufacturer to verify/confirm if your equipment is suitable for user-installed application cards.

ATTENTION: Cette carte est destinée à être installée par l'utilisateur, dans un ordinateur compatible certifié CSA/TUV/UL ou listé IBM AT, à l'intérieur de la zone définie par le fabricant. Consulter le mode d'emploi ou le fabricant de l'appareil pour vérifier ou confirmer si l'utilisateur peut y installer lui-même des cartes périphériques.

Compliance

This product is in conformity to the Council Directive 89/336/EEC, 92/31/EEC (EMC).

Introduction

Your 24x IDE CD-ROM provides a high-performance CD-ROM drive for your computer. The CD-ROM drive supports data transfer up to 3,600 KB per second and 100-millisecond or better access time.

Latest Information

The README file on the disk labeled "CD-ROM Installation Disk" contains the latest information and changes not available at the time this manual was printed. Please read the file before continuing.

To view the file in Windows 95:

1. Start Windows 95
2. Insert the disk into your floppy disk drive.
3. Open the My Computer window by double-clicking its icon.
4. Double-click the icon representing the drive containing your disk. The README file appears in the folder.
5. Double-click the README file. The Windows 95 Notepad appears and displays the contents of the README file.

To view the file in DOS:

1. Start your computer.
2. Insert the installation disk into your floppy drive.
3. Change to the drive containing the file. For example, type **A:** and press the ENTER key to change to drive A.
4. Type README and press the ENTER key. The contents of the README file are displayed.

System Requirements

To use the 24x IDE CD-ROM drive and the Creative software, you need:

- ❑ An IBM-compatible 100 MHz Pentium® or above
- ❑ 1 MB of available space on your hard disk drive
- ❑ MS-DOS version 6.2x
- ❑ Microsoft Windows 95, or Windows 3.1x or later
- ❑ Available 5.25" half-height drive bay (for CD-ROM drive)
- ❑ Available Enhanced IDE connector on the motherboard.

A slower PC or an ISA/VL-bus interface may work, however, CD-ROM access time and transfer rate may be reduced.

Disk Backup

Before you start, make a backup copy of the original disk. Use the backup; keep the original in a safe place.

Conventions

The following typographical conventions are in effect throughout this document.

Bold — Bold face type identifies words and phrases that are to be entered exactly as shown. For example:

```
SET SOUND=C:\SB16
```

Italic — Italic type identifies words and phrases that are to be replaced by you. For example:

```
voc2wav sample.VOC
```

In the example, you must supply a value for *sample*.

Italic emphasizes or identifies a word/phrase that is being defined. In this document, it is used to identify a button or menu item that you are to select; for example, "Select the *Play* button on the main menu."

ALL CAPS — A word in all capital letters identifies a key you are to press. For example, "Select *Yes* and press ENTER."

The notepad icon indicates information that is of particular importance and should be considered before continuing.

Designates a caution or warning that can help you avoid situations involving risk.

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1

Installing the 24x IDE CD-ROM Drive

The 24x IDE CD-ROM drive can be installed in your computer attaching the drive to an Enhanced IDE connector on the motherboard.

An ISA/VL-bus interface may work, however, CD-ROM access time and transfer rate may be reduced.

Installing the CD-ROM Drive

You may need a Phillips screwdriver for removing the computer cover, and for securing the 24x IDE CD-ROM drive to the drive bay.

Before you remove the computer cover, touch a grounded metal surface to discharge static electricity. The discharge of static electricity into electronic components can damage the circuitry of your computer and CD-ROM drive—ground yourself *before* touching the drive.

When handling a compact disc, hold the disc by the edges or center hole—do not touch the surface of the disc.

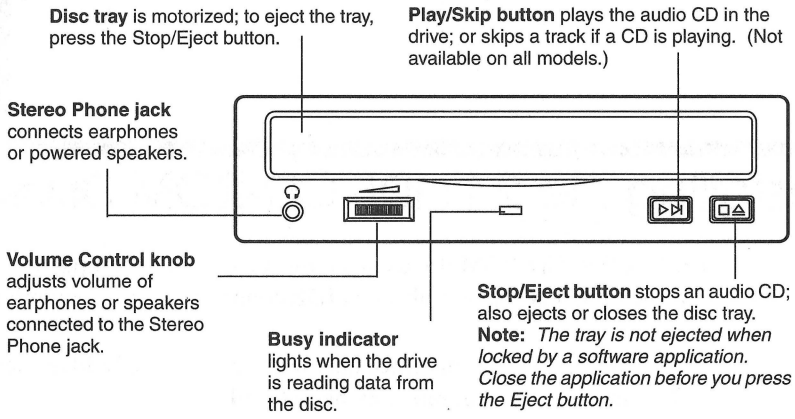

Figure 1-1: Front panel of your CD-ROM drive (your drive may vary slightly from the illustration).

To install the CD-ROM drive:

1. Turn off your computer and monitor; disconnect the power cord. Disconnect the monitor from the computer and set it aside.
2. With the computer cover removed, remove the cover of a vacant drive bay for the CD-ROM drive.

   Most personal computers have vacant drive bay(s) above or below your floppy disk drive(s). The cover may pop out or require that you remove one or more screws.

3. Connect the data cable to the CD-ROM drive. The data cable connector is designed to fit into the CD-ROM connector only when inserted in the correct position; if the connectors do not match, turn over the data cable connector and try again.

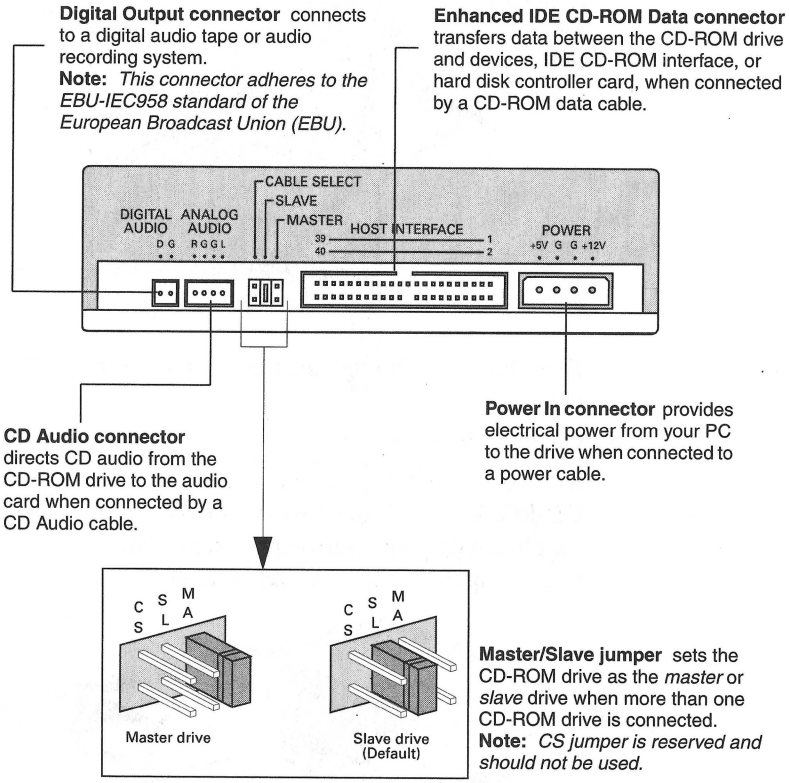

Figure 1-2: Rear panel of CD-ROM drive.

4. Connect the audio cable to the CD-ROM drive if you have an audio card installed in your system.

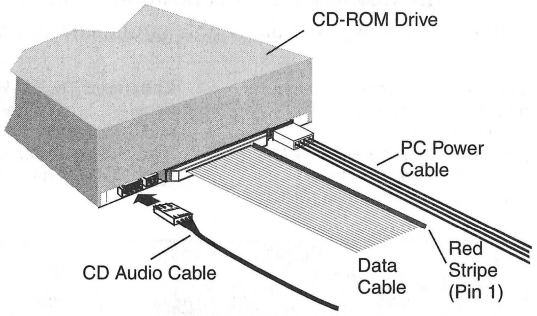

Figure 1-3: Connecting the cables to the CD-ROM drive (the location of the connectors on your CD-ROM drive may vary from the illustration)

Feed the cables through the bay as you insert the CD-ROM drive.

5. Carefully insert the CD-ROM drive into the vacant drive bay.

   Some drive bays require rails to be attached to the sides of the CD-ROM drive. If the drive does not fit the bay, use the rails supplied with your computer; if no rails are included, contact your computer's manufacturer or dealer.

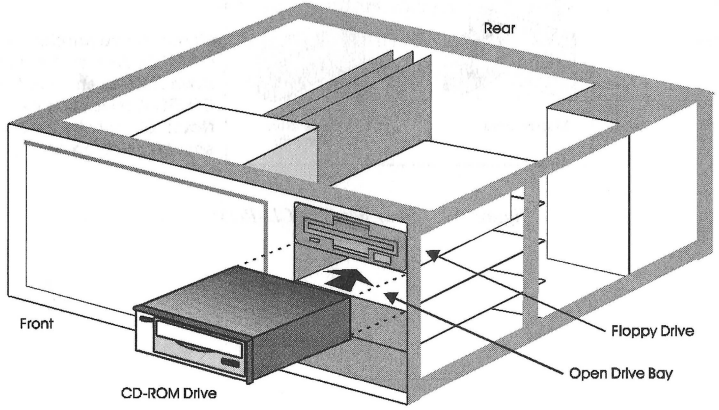

Figure 1-4: Inserting the CD-ROM drive into a vacant drive bay.

6. Connect the computer's power supply cable to the CD-ROM drive.

7. Secure the CD-ROM drive to the computer by inserting and tightening the screws (that are supplied) on both sides of the drive bay.

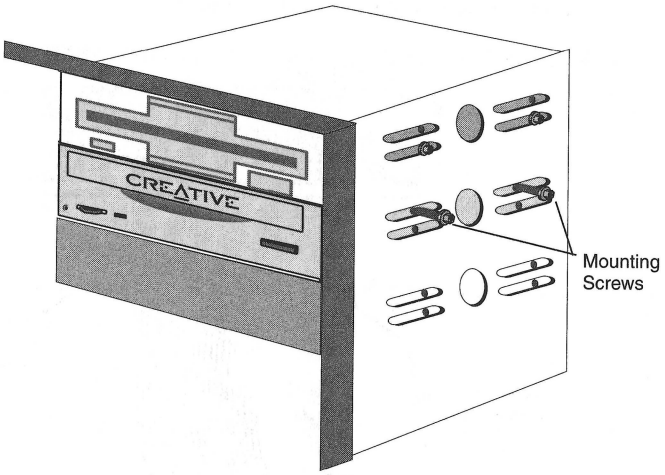

Figure 1-5: Securing the CD-ROM drive

8. Locate an available Enhanced IDE connector on your computer's motherboard; connect the data cable. Consult your computer's documentation for more information.

The CD-ROM data cable must be connected to the CD-ROM drive and the Enhanced IDE connector so that the colored stripe corresponds to pin 1 on both connectors.

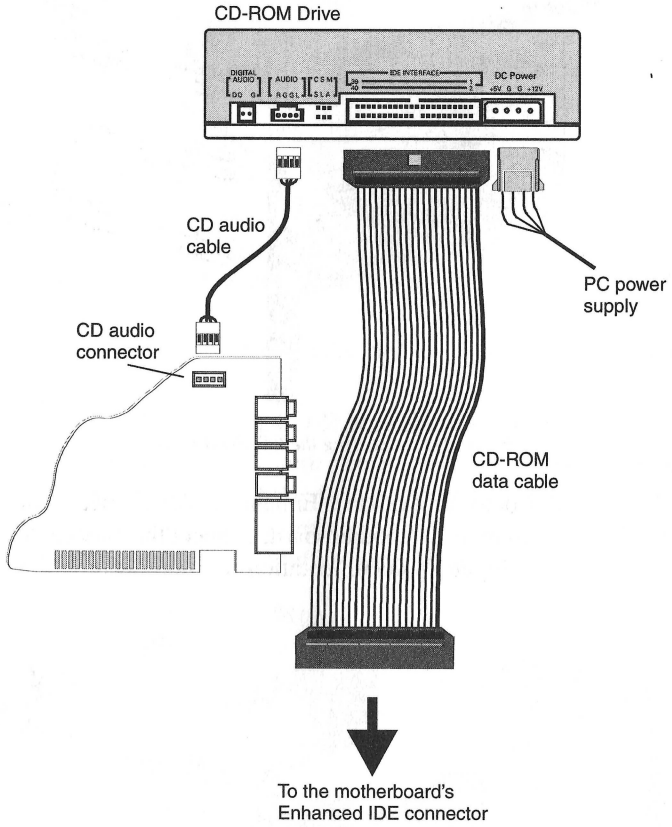

Figure 1-6: Connecting cables to the audio card and Enhanced IDE interface from the internal CD-ROM drive (the location of the connectors may vary from the illustration)

9. Connect the audio cable to your audio card if available.
10. Replace the cover on your computer, reconnect the monitor, and plug in and turn on the computer.

2

Installing CD-ROM Drive Software

Installation programs are provided for both Windows 95 and Windows 3.1/DOS.

Installing for Windows 95

The CD-ROM drive functions in Windows 95 once it is connected correctly to your existing Enhanced IDE connector on your motherboard.

Use the CD-ROM Installation Disk if you wish to use the drive in MS-DOS mode.

Installing the CD-ROM Drive Software

To install the 24x IDE CD-ROM software:

1. Turn on the power to your computer.
2. When Windows 95 boots, choose the Start button on the task bar. The Start menu is displayed.
3. Choose *Run...* on the Start menu. The Run dialog is displayed.

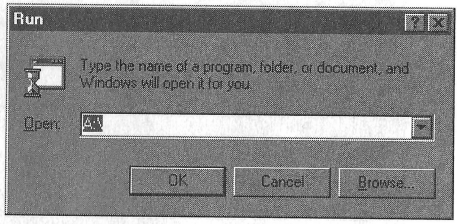

Figure 2-1: Run dialog.

4. Insert the CD-ROM Installation Disk into a floppy disk drive.

5. In the Run dialog text box, enter **A:\SETUP** (or **B:\SETUP**) and choose *OK*. The installation program prepares the InstallShield Wizard to guide you through the application setup.
6. The README.TXT file (Figure 2-2) appears. Read this file before you proceed with the installation.

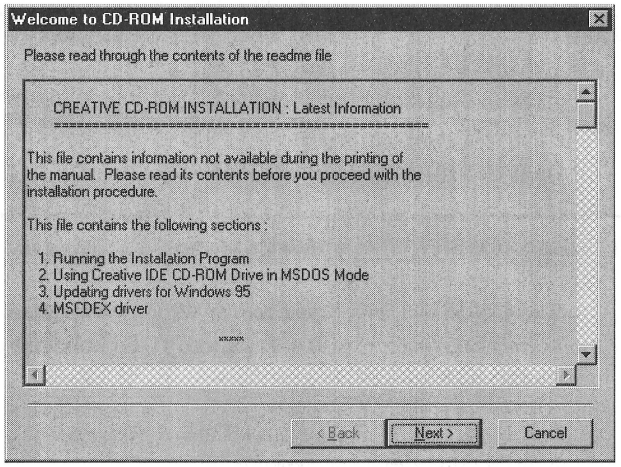

Figure 2-2: Readme.txt file (screen appearance may vary slightly).

7. Choose *Next*. The Choose Destination Location dialog (Figure 2-3) appears. The default path is **C:\Program Files\Sbcd**.

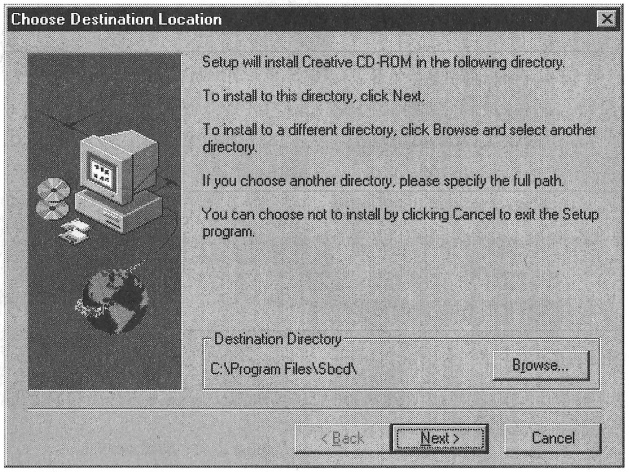

Figure 2-3: Choose Destination Location dialog.

To change the destination directory, choose *Browse*.

8. When the destination path is correct, choose *Next*. The installation program copies the files to your computer. The Device Selection dialog appears (Figure 2-4).

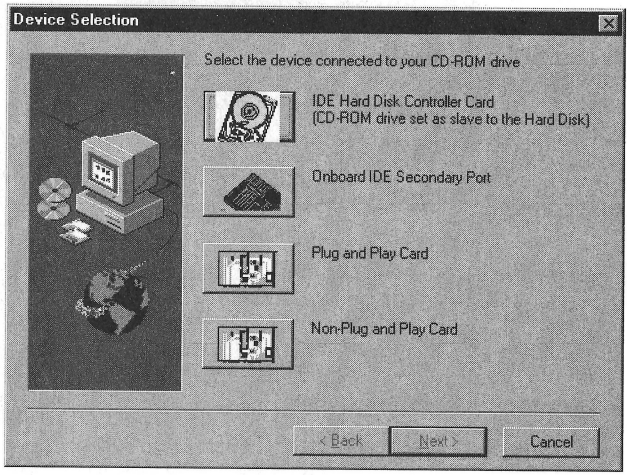

Figure 2-4: Device Selection dialog.

9. Select the device that you have connected to the CD-ROM drive.
   - ❑ Choose "IDE Hard Disk Controller Card" if you have daisy-chained the CD-ROM drive to the primary port on your motherboard.
   - ❑ Choose "Onboard IDE Secondary Port" if the CD-ROM drive is connected to an available secondary IDE port on your motherboard.
   - ❑ Choose "Plug and Play Card" if you attached the drive to a Plug and Play interface card.
   - ❑ Choose "Non-Plug and Play Card" if the drive is connected to a non-Plug and Play interface card.

10. The Setup Complete dialog appears (Figure 2-5).

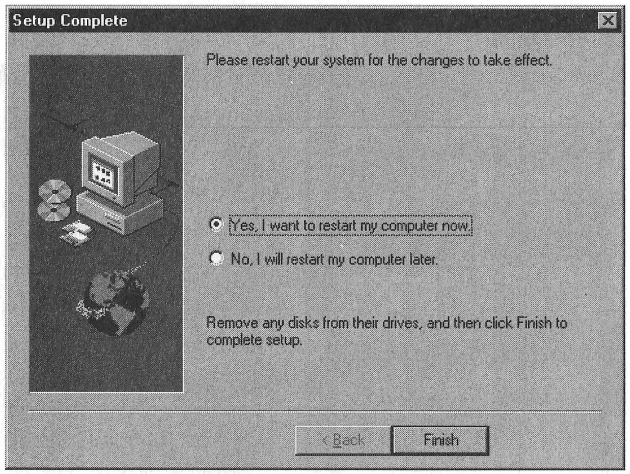

Figure 2-5: Setup Complete dialog.

11. Choose *Finish* to restart your computer.

Using the 24x IDE CD-ROM drive in MS-DOS Mode

Under MS-DOS mode, you need the drivers for DOS to be loaded. The setup program on the CD-ROM installation disk will modify the DOSSTART.BAT file located in the Windows directory to load your CD-ROM driver, when you shutdown to MS-DOS mode.

The following lines are added to the DOSSTART.BAT:

```
C:\Progra~1\Sbcd\Dosdrv\CTLOAD
  C:\Progra~1\Sbcd\Dosdrv\SBIDE.SYS /D:MSCD001
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```

If you choose to go to MS-DOS mode by changing the MS-DOS prompt properties and choosing a new configuration, you need to add the following lines to the AUTOEXEC.BAT file:

```
C:\Progra~1\Sbcd\CTLOAD
  C:\Progra~1\Sbcd\Drv\SBIDE.SYS  /D:MSCD001 /V
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```

If the file name of your target directory is more than eight characters (i.e. you are using the long filename feature of Windows 95), the filename must be shortened, as required for DOS. For example, if your target directory is "Program Files," then you need to refer to it as PROGRA~1. This is because MS-DOS has a restriction on the length of the filename and directory name.

The **/P:*xxx,xx*** settings may differ depending on the device the CD-ROM drive is connected. See Appendix B, "Changing Settings," for more information.

Installing Software in DOS/Windows 3.1

This section provides instructions to install the CD-ROM software in a DOS/Windows 3.1 system.

Installing the CD-ROM Drive Software

The CD-ROM installation software includes two drivers that control your CD-ROM drive.

To install the CD-ROM software:

1. Insert the CD-ROM Installation Disk into a floppy disk drive.
2. At the DOS prompt, type **A:** or **B:** and press the ENTER key. Type **INSTALL** and press the ENTER key.
3. Press the F2 key to view the README file. When you are finished, press the ESC key to return to the main menu.
4. Press the ENTER key to begin the installation.
5. The installation program asks for the CD-ROM drive software directory. The default is **C:\SBCD**. Accept the default or follow the instructions on-screen to change the directory.
6. The MSCDEX.EXE driver is required for your CD-ROM drive. When prompted, select the location of the driver and press ENTER.
7. Select the current I/O address of your IDE port: 1F0 (Primary: IDE Hard Disk Controller Card); 170 (Secondary: Onboard IDE Secondary Port); 1E8 (Tertiary); 168 (Quaternary).

IDE port	I/O address	IRQ
Primary	1F0	14
Secondary	170	15
Tertiary	1E8	11
Quaternary	168	10

8. Select the current IRQ setting of the IDE port: 14 (Primary); 15 (Secondary); 11 (Tertiary); 10 (Quaternary).
9. Once the installation is complete, reboot your system so the changes may take effect.

After the CD-ROM software is installed, the program adds lines to AUTOEXEC.BAT and CONFIG.SYS. (See Appendix B, "Changing the CD-ROM Driver Settings," for more information.)

A

Troubleshooting

This appendix provides you with the causes of and solutions for some common problems you may face.

CD-ROM Drive

PROBLEM: No sound from headphones or speakers.

Causes: The audio cable may not be connected properly or the volume may not be set to an audible level.

Solutions: The problem may be corrected by:

- ❑ If your headphones or speakers are connected to the jack on the front of the CD-ROM drive, adjust the volume control on the drive.
- ❑ If your headphones or speakers are connected to an audio card, adjust the volume through the audio card mixer or volume control.
- ❑ Connect headphones to the stereo phone jack on the audio card. If there is no sound from your headphones, check to see if the audio cable is properly connected from the CD-ROM drive to the audio card.

PROBLEM: Interface card or CD-ROM drive is not ready.

Causes: The problem may be caused by:

- ❑ Power or data cable is not properly connected
- ❑ I/O setting in CONFIG.SYS file is not correct
- ❑ The Secondary IDE port may be disabled in your computer's BIOS

PROBLEM: There is no CD audio sound.

Cause: The volume is not turned up.

Solution: If your speakers or headphones are connected to the front audio jack, adjust the volume control on the front of the CD-ROM drive.

Or, if your speakers or headphones are connected to your audio card use the volume control or mixer application for your audio card to adjust the volume.

Check the speaker connections and power supply if you are using powered speakers or an external amplifier.

PROBLEM: When running QuickCD, the following error message appears at the top of the screen: "BLASTER setting error. I/O base set to 220 hex."

Cause: The BLASTER environment is not set in your AUTOEXEC.BAT file. When you start QuickCD from the DOS command line, the program attempts to set the volume control from the BLASTER environment line in the AUTOEXEC.BAT file.

Solution: If you have Sound Blaster Pro or Sound Blaster 16 installed, reinstall the software. If you have no Sound Blaster card installed, ignore the message—the operation of QuickCD is not affected.

B

Changing Settings

The operation of your 24x IDE CD-ROM drive is dependent on the I/O address (port) and interrupt (IRQ) settings. The information that follows explains how to change the interface port and interrupt settings in case of a conflict.

If you connect the CD-ROM drive to an Enhanced IDE connector on the motherboard, the drive settings are based upon the controller's settings and cannot be changed.

Changing the Settings in Windows 95

To change the resource settings for the CD-ROM:

1. Click the Start button
2. Select Settings and Control Panel.
3. Double-click the System icon.
4. Click the Device Manager tab.
5. Click the plus sign next to the hardware device type. For example, click on the plus sign next to "Hard disk controllers" or "CD-ROM controllers."
6. Double-click the hardware. For example, double-click on "IDE CD-ROM Controller."
7. Click the Resources or Settings tab.
   If your device does not have a Resources tab, either you cannot change its resources or it isn't using any resource settings.
8. Disable the *Use automatic settings* option
9. Double-click the resource you want to change.

For detailed information refer to the Windows 95 on-line documentation.

Changing the CD-ROM Driver Settings in DOS/Windows 3.1

Two drivers are needed to control your CD-ROM drive: SBIDE.SYS (hardware-dependent) and MSCDEX.EXE (Microsoft CD-ROM Extensions). The installation program automatically updates the CONFIG.SYS file to include a statement similar to:

```
DEVICE=C:\SBCD\DRV\SBIDE.SYS /D:MSCD001 /P:170,15
C:\path\MSCDEX.EXE /D:MSCD001 /M:8 /V
```

SBIDE.SYS

SBIDE.SYS supports *primary*, *secondary*, *tertiary*, and *quaternary* ports, industry conventions for I/O addresses and IRQ line used by an IDE interface.

The syntax of the SBIDE.SYS statement in CONFIG.SYS is:

```
DEVICE=C:\path\SBIDE.SYS /D:device /P:addr,irq /V
```

Parameter	Description
path /D:*device*	Directory in which you installed the CD-ROM software. Default is **C:\SBCD**
/P:*address*,*irq*	Name of the CD-ROM drive; must be the same as device name in AUTOEXEC.BAT. Default is **/D:MSCD001**. Base address for IDE interface. *address* can be 1F0, 170, 1E8, or 168. *irq* can be 10, 11, 12, 14, or 15.

IDE Port	I/O Address (*address*)	IRQ (*irq*) Lines
Primary	1F0	14
Secondary	170	15
Tertiary	1E8	11 or 12
Quaternary	168	10 or 11

/V	When your computer starts, displays drive type, version, port address, and interrupt of your CD-ROM drive.

Select the primary port only if you connect the drive to the primary hard disk controller. Also, you can only connect two IDE devices to each IDE port in a system; the names of these IDE ports do not indicate a sequence for adding IDE devices.

The **/P** switch is not required with the SBIDE.SYS driver when connected to the hard disk controller.

MSCDEX.EXE

The syntax of the MSCDEX.EXE statement in AUTOEXEC.BAT is:

```
C:\path\MSCDEX.EXE /D:device /M:xx [/L:drive] [/E] /V
```

[ ] (brackets) indicate an optional parameter. After making changes to the statement, reboot your system for the changes to take effect.

Parameter	Description
path	Directory for the CD-ROM software. Default is **C:\SBCD**.
/D:*driver1* [/D:*driver2*. ..]	Name of the CD-ROM drive; must be identical to the device name in the CONFIG.SYS file. Default is **/D:MSCD001**. Additional drivers (*driver2*...) can be named in the same MSCDEX command.
/E	Use expanded memory, if available. (Only applies to Expanded Memory Manager LIM version 3.2 or later.)
/K	Directs MS-DOS to recognize CD-ROMs encoded in Kanji. By default, MS-DOS does not recognize Kanji CD-ROMs.
/S	Enables sharing of CD-ROM drives on MS-NET or Windows for Workgroups servers.
/V	Displays summary of RAM and memory allocation at boot.
/L:*letter*	Letter assigned to the CD-ROM drive. If not specified, the next available letter is used. If you have included the LASTDRIVE statement in your CONFIG.SYS file, the letter designated with the MSCDEX line must fall within the specified range.
/M:*xx*	Number of buffers for temporary storage of data. *xx* ranges from 2 to 30. CD-ROM drive performance increases with the value of *xx*; too many buffers may impact programs with large memory requirements.

Adding a CD-ROM Drive

You can daisy-chain another CD-ROM drive to your computer by connecting the drives with a data cable (see Figure B-2). You can connect two IDE CD-ROM drives to an IDE port. If your second drive is not a Creative IDE CD-ROM drive, consult the documentation for the second drive before connecting the two CD-ROM drives.

You must set one of the two drives connected to the IDE port as a master and the other as a slave. The master/slave assignment is made by configuring the jumper block at the back of the CD-ROM drives—the factory default for the Creative IDE CD-ROM drive is for a slave (see Figure B-1).

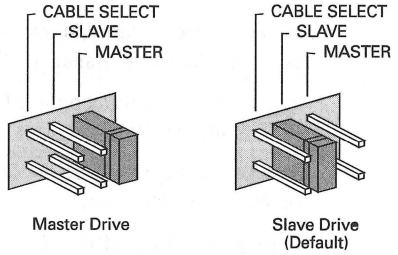

Figure B-1: Jumper block settings for daisy-chaining IDE CD-ROM drives

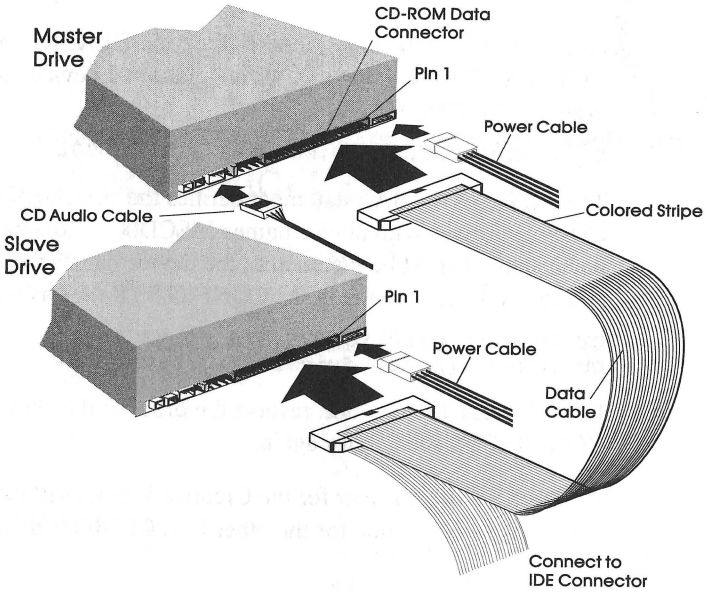

Figure B-2: Daisy-chaining two IDE CD-ROM drives

The cable required for this connection is not included in your multimedia kit.

In Windows 95

After connecting the drive, switch on your computer to allow Windows 95 to detect the CD-ROM drive. When prompted to select a driver for your new hardware, insert the CD-ROM Installation Disk into the appropriate drive; select "Driver from disk provided by hardware manufacturer" and choose OK. Follow the remaining prompts to complete the installation.

In DOS/Windows 3.x

After connecting the drive, modify the MSCDEX statement in your AUTOEXEC.BAT file to include an additional device name, for example, MSCD002:

```
C:\[path]\MSCDEX /D:MSCD001 /D:MSCD002
```

The AUTOEXEC.BAT statement defines the MSCDEX driver for two CD-ROM drives with device names MSCD001 and MSCD002. The device names must be identical to the device names for the respective CD-ROM device drivers in the CONFIG.SYS files as shown below:

```
DEVICE=C:\[path]\SBIDE.SYS /D:MSCD001
DEVICE=C:\[path]\driver.SYS /D:MSCD002
```

If the devices do not work, reverse the order of the above lines in the CONFIG.SYS file and try again.

SBIDE.SYS is the driver for the Creative IDE CD-ROM drive and *driver*.SYS is the name for the other IDE CD-ROM drive.

C

Technical Specifications

This appendix lists the technical specifications of the 24x IDE CD-ROM drive.

Performance Characteristics

Power Supply	1 Amp (Max.) on +5 Volts 1.5 Amp (Max.) on +12 Volts
Storage Capacity 74 min	656 MB (Mode 1 and Mode 2 Form 1) 748 MB (Mode 2)
Data Transfer Rate (24x CAV)	768~1800 Blocks/second 1540~3600 kBytes/second (Mode 1) (mean value; 2575 kB/s) 1756~4104 kBytes/second (Mode 2)
	75 Blocks/second 150 kBytes/second (Mode 1) 171 kBytes/second (Mode 2)
Access Time (1/3 Stroke)	< 100 ms typical
Error Rate	
Soft Read Errors	< 1 per 10^9
Hard Read Errors	< 1 per 10^{12}
Seek Errors	< 1 per 10^6

Typical Audio Performance

Sampling Frequency	44.1 kHz
Number of Channels	2
Frequency Response	
Line-out	20 Hz to 20 kHz +0.5 -3.0 dB
Headphone	100 Hz to 20 kHz +0.5 -3.0 dB
Signal to Noise Ratio	
Line-out	>85 dB
Headphone	>80 dB
Total Harmonic Distortion (at 1 kHz)	
Line-out	<0.1%
Headphone	<0.2%
Channel Separation (Typical)	
Line-out	>85 dB
Headphone	>50 dB
Output (Typical)	
Line-out	0.8 V_{rms}
Headphone	0.6 V_{rms}

Environmental Operating Limits

Ambient Temperature (No Condensation)	
Operating	5 to 50°C
Storage	-30 to 65°C
Relative Humidity (No Condensation)	
Operating	5 to 90%
Storage	5 to 95%

Guide de l'utilisateur

24x IDE CD-ROM

Introduction

Le 24x IDE CD-ROM équipe votre ordinateur d'un lecteur de CD-ROM hautes performances. Ce lecteur de CD-ROM permet des transferts de données allant jusqu'à 3 600 Ko par seconde et des temps d'accès supérieurs ou égaux à 100-millisecondes.

Renseignements de dernière minute

Le fichier README qui se trouve sur le disque marqué "CD-ROM Installation Disk" (disque d'installation du lecteur de CD-ROM) contient des renseignements et modifications de dernière minute qui n'étaient pas encore disponibles au moment de la mise sous presse du manuel. Veuillez lire ce fichier avant de continuer.

Pour visualiser ce fichier sous Windows 95 :

1. Démarrez Windows 95.
2. Introduisez le disque dans votre lecteur de disquette.
3. Ouvrez la fenêtre Poste de travail en cliquant deux fois sur son icône.
4. Cliquez deux fois sur l'icône représentant le lecteur contenant votre disque. Le fichier README apparaît dans le dossier.
5. Cliquez deux fois sur le fichier README. Le bloc-notes de Windows 95 apparaît en affichant le contenu du fichier README.

Pour visualiser ce fichier sous DOS :

1. Démarrez l'ordinateur.
2. Introduisez la disquette d'installation dans votre lecteur de disquette.
3. Activez le lecteur de disquette contenant ce fichier. Par exemple, tapez **A:** et appuyez sur la touche ENTREE pour activer le lecteur A.
4. Tapez README et appuyez sur la touche ENTREE. Le contenu du fichier README apparaît à l'écran.

Configuration requise

Matériel nécessaire pour utiliser le lecteur de CD-ROM 24x IDE CD-ROM et le logiciel de Creative :

- ❑ Un ordinateur compatible IBM avec processeur Pentium de 100 MHz ou ordinateur de puissance supérieure
- ❑ 1 MB d'espace disponible sur le disque dur
- ❑ MS-DOS version 6.2x
- ❑ Microsoft Windows 95, ou Windows 3.1x ou version plus récente
- ❑ Baie disponible pour unité demi-hauteur de 5,25 pouces (pour le lecteur de CD-ROM)
- ❑ Haut-parleurs ou écouteurs
- ❑ Connecteur IDE amélioré disponible sur la carte mère

Un ordinateur PC de vitesse inférieure ou avec interface de bus ISA/VL pourrait marcher, mais les temps d'accès au CD-ROM et les vitesses de transfert risquent d'être inférieurs.

Copie de sauvegarde du disque

Avant de commencer, faites une copie de sauvegarde du disque d'origine. Utilisez la copie et rangez l'original en lieu sûr.

1

Installation du CD 24x

Le lecteur 24x IDE CD-ROM peut être installé dans votre ordinateur en reliant le lecteur à un connecteur IDE amélioré situé sur la carte mère.

Une interface de bus ISA/VL pourrait marcher, mais les temps d'accès au CD-ROM et les vitesses de transfert risquent d'être inférieurs.

Installation du lecteur de CD-ROM

Il est possible que vous ayez besoin d'un tournevis cruciforme pour retirer le couvercle de l'ordinateur et fixer le 24x IDE CD-ROM dans la baie.

Avant de démonter le couvercle de l'ordinateur, posez la main sur une surface métallique mise à la masse afin de vous décharger de toute électricité statique. Une décharge d'électricité statique dans les composants électroniques risque d'endommager les circuits de l'ordinateur et le lecteur de CD-ROM—mettez-vous au contact de la masse *avant* de toucher le lecteur.

Pour manipuler un disque compact, saisissez le disque par les bords ou le trou central—ne touchez pas la surface du disque.

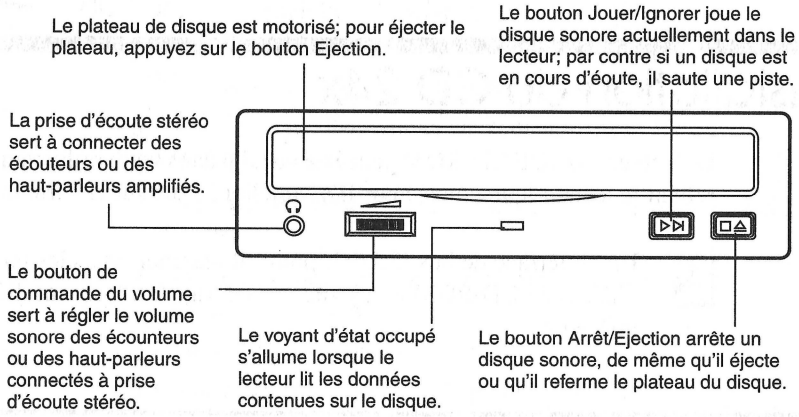

Figure 1-1: Panneau avant de votre lecteur de CD-ROM (illustration pouvant varier d'un modèle de lecteur à un autre).

Pour installer le lecteur de CD-ROM :

1. Mettez l'ordinateur et le moniteur à l'arrêt et débranchez le cordon d'alimentation. Débranchez le moniteur de l'ordinateur et mettez-le de côté.
2. Le couvercle de l'ordinateur ayant été démonté, retirez le cache d'une baie disponible pouvant recevoir le lecteur de CD-ROM. La plupart des ordinateurs individuels ont une ou plusieurs baies disponibles au-dessus ou en desous du ou des lecteurs de disquette. Il est possible que le cache de cette baie se soulève automatiquement, ou que vous ayez besoin de retirer une ou plusieurs vis.

3. Connectez le câble de données au lecteur de CD-ROM. La configuration du connecteur du câble de données est telle qu'il ne peut s'adapter au connecteur du lecteur de CD-ROM que dans un sens ; si ces connecteurs ne s'accouplent pas correctement, tournez le connecteur du câble de données dans l'autre sens et réssayez.

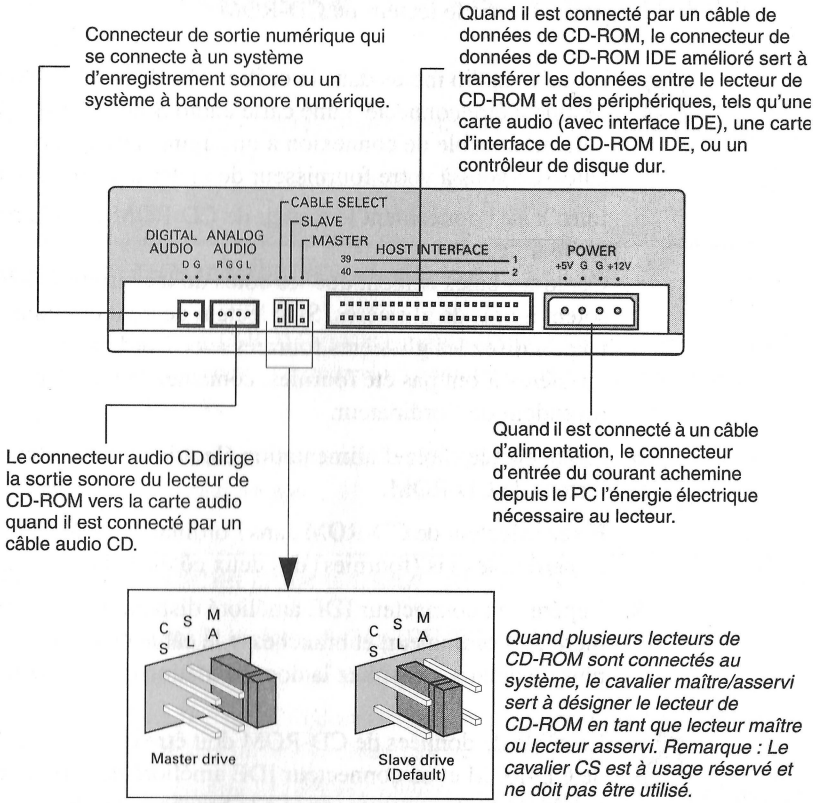

Figure 1-2: Panneau arrière du lecteur de CD-ROM.

4. Connectez le câble audio au lecteur de CD-ROM si votre système est équipé d'une carte audio.
   Le connecteur du câble audio avec mécanisme de verrouillage se connecte au lecteur de CD-ROM.
   Branchez le connecteur opposé sur la carte audio.
   Faites avancer les câbles dans la baie au fur et à mesure que vous y introduisez le lecteur de CD-ROM.

Le câble audio inclus dans le coffret 24x IDE CD-ROM est destiné à être connecté à une carte audio Sound Blaster. Pour obtenir un câble de connexion à une autre carte audio, adressez-vous à votre fournisseur de matériel informatique.

5. Introduisez doucement le lecteur de CD-ROM dans la baie disponible.
   Certaines baies exigent que les côtés du lecteur de CD-ROM soient munis de glissières. Si le lecteur ne tient pas bien dans la baie, utilisez les glissières fournies avec l'ordinateur ; si ces glissières n'ont pas été fournies, contactez le fabricant ou le revendeur de l'ordinateur.
6. Connectez le câble d'alimentation électrique de l'ordinateur au lecteur de CD-ROM.
7. Fixez le lecteur de CD-ROM dans l'ordinateur en introduisant et en serrant les vis (fournies) des deux côtés de la baie.
8. Repérez un connecteur IDE amélioré disponible sur la carte mère de l'ordinateur, et branchez-y le câble de données. Pour plus de détails, consultez la documentation de l'ordinateur.

Le câble de données de CD-ROM doit être connecté au lecteur de CD-ROM et au connecteur IDE amélioré de sorte que la bande de couleur corresponde à la broche 1 des deux connecteurs.

9. Le cas échéant, connectez le câble audio à votre carte audio.
10. Remettez le couvercle de l'ordinateur en place, reconnectez le moniteur, branchez l'ordinateur et mettez-le en marche.

2

Installation du logiciel pour lecteur de CD-ROM

Des programmes d'installation ont été fournis pour Windows 95 et pour Windows 3.1/DOS.

Installation pour Windows 95

Le lecteur de CD-ROM fonctionnera sous Windows 95 une fois qu'il aura été correctement connecté au connecteur IDE amélioré existant sur votre carte mère.

Utilisez la disquette d'installation du CD-ROM si vous souhaitez utiliser le lecteur en mode MS-DOS.

Installation du logiciel pour lecteur de CD-ROM

Pour installer le logiciel du 24x IDE CD-ROM :

1. Mettez l'ordinateur sous tension.
2. Une fois que Windows 95 est lancé, cliquez sur le bouton de la barre des tâches. Le menu Démarrer apparaît.
3. Sélectionnez l'option *Exécuter...* du menu Démarrer. La boîte de dialogue Exécuter apparaît.
4. Introduisez la disquette d'installation du CD-ROM dans un lecteur de disquette.
5. Dans la boîte de dialogue Exécuter, tapez **A:\SETUP** (ou **B:\SETUP**) et choisissez *OK*. Le programme d'installation prépare l'assistant d'installation InstallShield pour vous guider tout au long de la configuration de l'application.
6. Le fichier README.TXT apparaît. Lisez ce fichier avant de poursuivre l'installation.

7. Choisissez *Suivant*. La boîte de dialogue Choisir l'emplacement destinataire apparaît. Par défaut, ce chemin est **C:\Program Files\Sbcd**.
   Pour choisir un autre répertoire de destination, choisissez *Parcourir*.
8. Dès que le chemin de destination vous convient, choisissez *Suivant*. Le programme d'installation copie les fichiers dans votre ordinateur. La boîte de dialogue Sélection d'un périphérique apparaît.
9. Sélectionnez le périphérique connecté au lecteur de CD-ROM.
   - ❑ Choisissez « Carte de contrôle de disque dur IDE » si vous avez connecté le lecteur de CD-ROM en guirlande sur le port principal de la carte mère.
   - ❑ Choisissez « Port secondaire IDE intégré » si le lecteur de CD-ROM est connecté à un port secondaire IDE disponible de la carte mère.
   - ❑ Choisissez « Carte Plug and Play » si vous avez connecté le lecteur à une carte d'interface Plug and Play.
   - ❑ Choisissez « Carte non Plug and Play » si le lecteur est connecté à une carte d'interface non Plug and Play.
10. La boîte de dialogue Installation terminée apparaît.
11. Choisissez *Terminer* pour faire redémarrer l'ordinateur.

Utilisation du lecteur 24x IDE CD-ROM en mode MS-DOS

En mode MS-DOS, les pilotes DOS doivent être chargés en mémoire. Le programme de configuration du disque d'installation du CD-ROM va modifier le fichier DOSSTART.BAT situé dans le répertoire Windows pour que le pilote de votre CD-ROM soit chargé au moment où vous passez en mode MS-DOS.

Les lignes ci-dessous sont ajoutées au fichier DOSSTART.BAT :

```
C:\Progra~1\Sbcd\Dosdrv\CTLOAD
  C:\Progra~1\Sbcd\Dosdrv\SBIDE.SYS /D:MSCD001
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```


Si vous choisissez de passer en mode MS-DOS en changeant les propriétés d'invite MS-DOS et en choisissant une nouvelle configuration, vous devez ajouter les lignes ci-dessous au fichier AUTOEXEC.BAT :

```
C:\Progra~1\Sbcd\CTLOAD
  C:\Progra~1\Sbcd\Drv\SBIDE.SYS  /D:MSCD001 /V
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```

Si le nom du répertoire destinataire fait plus de huit caractères (c'est-à-dire que vous tirez parti des conventions de Windows 95 autorisant les noms plus longs), le nom du fichier doit être raccourci, conformément aux exigences de DOS. Par exemple, si votre répertoire destinataire est « Fichiers programmes », vous devez le désigner par FICHIE~1. Ceci est dû au fait que MS-DOS impose des restrictions sur la longueur des noms de fichiers et de répertoires.
Les paramètres **/P:*xxx,xx*** peuvent varier selon le périphérique auquel le lecteur de CD-ROM est connecté.

Installation du logiciel sous DOS/Windows 3.1

Cette section documente l'installation du logiciel du lecteur de CD-ROM avec un système tournant sous DOS/Windows 3.1.

Installation du logiciel pour lecteur de CD-ROM

Le logiciel d'installation du CD-ROM contient deux pilotes pour lecteur de CD-ROM.

Marche à suivre pour installer le logiciel de CD-ROM :

1. Introduisez la disquette d'installation du CD-ROM dans un lecteur de disquette.
2. A l'invite du DOS, tapez **A:** ou **B:** et appuyez sur la touche ENTREE. Tapez **INSTALL** et appuyez sur la touche ENTREE.
3. Appuyez sur la touche F2 pour consulter le fichier README. Quand vous avez terminé, appuyez sur la touche ESC pour retourner au menu principal.
4. Appuyez sur la touche ENTREE pour lancer l'installation.

5. Le programme d'installation vous demande d'indiquer le répertoire contenant le logiciel du lecteur de CD-ROM. Par défaut, ce répertoire est **C:\SBCD**. Acceptez cet emplacement par défaut ou suivez les instructions sur écran pour changer de répertoire.
6. Le pilote MSCDEX.EXE est indispensable au fonctionnement du lecteur de CD-ROM. A l'invite du système, sélectionnez l'emplacement de ce pilote et appuyez sur ENTREE.
7. Sélectionnez l'adresse E-S en vigueur pour le port IDE: 1F0 (Primaire : contrôleur de disque dur IDE); 170 (Secondaire : port secondaire IDE interne); 1E8 (Tertiaire); 168 (Quaternaire).

Port IDE	L'adresse E-S	IRQ
Primaire	1F0	14
Secondaire	170	15
Tertiaire	1E8	11
Quaternaire	168	10

8. Sélectionnez le paramètre IRQ en vigueur pour le port IDE: 14 (Primaire); 15 (Secondaire); 11 (Tertiaire); 10 (Quaternaire).
9. Quand l'installation est terminée, remettez l'ordinateur en marche pour que les nouveaux pilotes soient pris en considération.

Manual do Usuário

24x IDE CD ROM

Introdução

O 24x IDE CD ROM oferece uma unidade de CD ROM de alto desempenho para seu computador. A unidade suporta transferência de dados a até 3.600 KB por segundo e tempo de acesso de 100 milisegundos ou menos.

Últimas informações

O arquivo LEIA-ME no disco identificado como disco de instalação do CD ROM contém as últimas informações e alterações que não estavam disponíveis quando foi impresso este manual. Por favor, leia o arquivo antes de prosseguir.

Para visualizar o arquivo no Windows 95, faça o seguinte:

1. Inicialize o Windows 95
2. Coloque o disco em sua unidade de disco flexível.
3. Abra a janela Meu Computador dando dois cliques no ícone.
4. Dê dois cliques no ícone da unidade que contém o disco. O arquivo LEIA-ME aparece na pasta.
5. Dê dois cliques no arquivo LEIA-ME. Aparece o Bloco de Notas do Windows 95 com o arquivo LEIA-ME.

Para visualizar o arquivo no DOS, faça o seguinte:

1. Inicialize seu computador.
2. Coloque o disco de instalação em sua unidade de disco flexível.
3. Vá para a unidade que contém o arquivo, por exemplo: digite **A:** e aperte a tecla ENTER para ir para a unidade A.
4. Digite LEIA-ME e aperte a tecla ENTER. É exibido o conteúdo do arquivo LEIA-ME.

Requisitos de sistema

Para usar a unidade de 24x IDE CD ROM e o software da Creative, você precisa do seguinte:

- ❑ Um PC compatível com um IBM com um Pentium 100 MHz ou melhor
- ❑ 1 MB de espaço disponível em seu disco rígido
- ❑ A versão 6.2x do MS-DOS
- ❑ Microsoft Windows 95 ou Windows 3.1x ou mais recente
- ❑ Um compartimento vago de 5.25" e meia altura (para a unidade de CD ROM)
- ❑ Caixas acústicas ou fones de ouvido
- ❑ Um conector Enhanced IDE disponível na placa-mãe

Um PC mais lento ou uma interface com barramento ISA/VL poderá funcionar, mas o tempo de acesso e a taxa de transferência do CD ROM poderão ser prejudicados.

Cópia de reserva do disco

Antes de começar, faça uma cópia de reserva do disco original e use esta cópia para a instalação. Guarde o original em lugar seguro.

1

Instalação do 24x IDE CD ROM

O 24x IDE CD ROM pode ser instalado em seu computador através de uma conexão Enhanced IDE de sua placa-mãe.

Uma interface com barramento ISA/VL poderá funcionar, mas o tempo de acesso e a taxa de transferência do CD ROM poderão ser prejudicados.

Instalação da unidade de CD ROM

Você poderá precisar de uma chave Phillips para abrir o computador e para instalar a unidade 24x IDE CD ROM no compartimento.

Antes de abrir o computador, toque uma superfície metálica aterrada para descarregar a eletricidade estática acumulada em seu corpo. A descarga da eletricidade estática em componentes eletrônicos pode danificar os circuitos de seu computador e da unidade de CD ROM. Descarregue a eletricidade estática *antes* de tocar a unidade.

Segure um compact disc pelas bordas ou pelo orifício central. Nunca toque a superfície do disco.

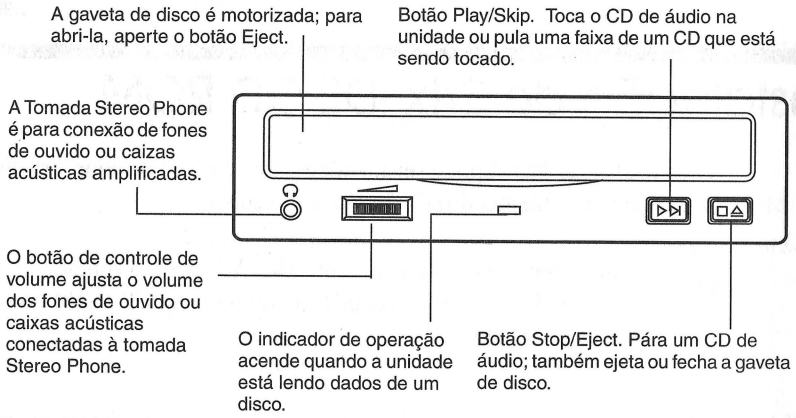

Figura 1-1: O painel frontal da unidade de CD ROM (sua unidade pode ser um pouco diferente do indicado na ilustração).

Para instalar a unidade de CD ROM, faça o seguinte:

1. Desligue o computador e monitor e desconecte o cabo de alimentação. Desconecte o monitor do computador e coloque-o de lado.
2. Com o computador aberto, retire a tampa de um compartimento vago para instalar a unidade de CD ROM.
   A maioria dos micros possui um ou mais compartimentos de unidades acima ou abaixo da(s) unidade(s) de disco flexível. A tampa pode estar simplesmente encaixada ou fixada com um ou mais parafusos.
3. Conecte o cabo de dados à unidade de CD ROM. O conector do cabo de dados foi projetado para encaixar com o conector da unidade de CD ROM em uma só posição. Se os conectores não encaixarem, vire o conector do cabo de dados e tente novamente.

4. Conecte o cabo de áudio à unidade de CD ROM se tiver uma placa de áudio instalada no sistema.
   O conector do cabo de áudio com uma trava deve ser conectado à unidade de CD ROM.

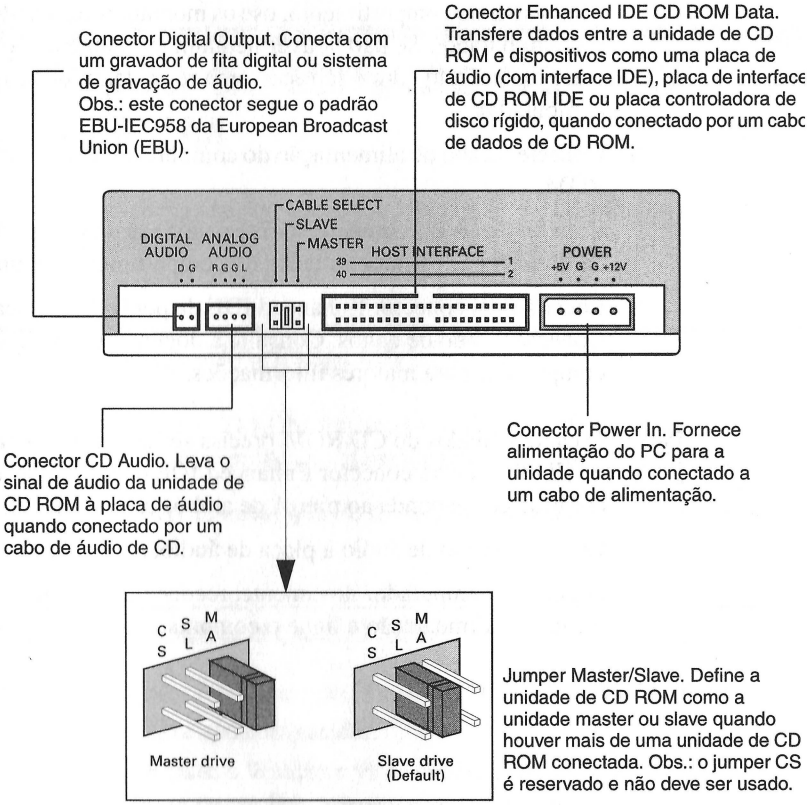

Figura 1-2: painel posterior da unidade de CD ROM.

Introduza os cabos no compartimento à medida que for inserindo a unidade de CD ROM.

O cabo de áudio incluído no kit da unidade 24x IDE CD ROM é para conexão com uma placa de áudio Sound Blaster. Entre em contato com seu revendedor de computadores se precisar de uma conexão para outra placa de áudio.

5. Insira cuidadosamente a unidade de CD ROM no compartimento.
   Alguns compartimentos de unidades requerem a instalação de montantes nas laterais da unidade de CD ROM. Se a unidade não couber no compartimento, use os montantes fornecidos com seu computador. Se não houver nenhum montante disponível, entre em contato com o fabricante ou revendedor de seu computador.
6. Conecte o cabo de alimentação do computador à unidade de CD ROM.
7. Com os parafusos fornecidos, fixe a unidade de CD ROM ao computador em ambos os lados do compartimento da unidade.
8. Localize um conector Enhanced IDE disponível na placa-mãe. Conecte o cabo de dados. Consulte a documentação de seu computador para maiores informações.

O cabo de dados do CD ROM precisa ser conectado à unidade de CD ROM e ao conector Enhanced IDE de modo que a listra colorida corresponda ao pino 1 de ambos os conectores.

9. Conecte o cabo de áudio à placa de áudio, se for o caso.
10. Feche seu computador novamente, reconecte o monitor, instale o cabo de alimentação e ligue o computador.

2

Instalação do software da unidade de CD ROM

Foram fornecidos programas de instalação para o Windows 95 e para o Windows 3.1/DOS.

Instalação no Windows 95

A unidade de CD ROM funciona no Windows 95 desde que corretamente acoplada ao conector Enhanced IDE de seu placa-mãe.

Use o disco de instalação do CD ROM se quiser usar a unidade no modo MS-DOS.

Instalação do software de CD ROM

Para instalar o software do 24x IDE CD ROM, faça o seguinte:

1. Ligue seu computador.
2. Quando o Windows 95 inicializar, clique no botão Iniciar na barra de tarefas. Aparece o menu Iniciar.
3. Selecione *Executar...* no menu Iniciar. Aparece o diálogo Executar.
4. Coloque o disco de instalação do CD ROM na unidade de disco flexível.
5. Na caixa de diálogo Executar, digite **A:\SETUP** (ou **B:\SETUP**) e selecione *OK*. O programa de instalação prepara o assistente do InstallShield para orientá-lo(a) na configuração do aplicativo.
6. Aparece o arquivo LEIA-ME.TXT. Leia este arquivo antes de continuar a instalação.

7. Selecione *Seguinte*. Aparece o diálogo de seleção do diretório de destino. O caminho-padrão é **C:\Program Files\Sbcd**. Para alterar o diretório de destino, selecione *Procurar*.
8. Quando o caminho de destino estiver correto, selecione *Seguinte*. O programa de instalação copia os arquivos para seu computador. Aparece o diálogo de seleção do dispositivo.
9. Selecione o dispositivo que você conectou à unidade de CD ROM.
   - ❑ Selecione "IDE Hard Disk Controller Card" (placa IDE de controle do disco rígido) se tiver conectado a unidade de CD ROM em margarida (cadeia em série) à porta principal de sua placa-mãe.
   - ❑ Selecione "Onboard IDE Secondary Port" (porta IDE secundária da placa) se a unidade de CD ROM estiver conectada a uma porta IDE secundária de sua placa-mãe.
   - ❑ Selecione "Plug and Play Card" (placa Plug and Play) se tiver acoplado a unidade a uma placa de interface Plug and Play.
   - ❑ Selecione "Non-Plug and Play Card" (placa que não é Plug and Play) se a unidade estiver conectada a uma placa de interface que não seja Plug and Play.
10. Aparece o diálogo de conclusão da configuração.
11. Selecione *Concluir* para reinicializar seu computador.

Uso da 24x IDE CD ROM no modo MS-DOS

No modo MS-DOS, é preciso que os drivers para DOS estejam carregados. Ao desligar e reiniciar no modo MS-DOS, o programa de configuração do disco de instalação do CD ROM modifica o arquivo de lote DOSSTART.BAT, localizado no diretório Windows, para carregar o driver de CD ROM.

São acrescentadas as seguintes linhas ao arquivo DOSSTART.BAT:

```
C:\Progra~1\Sbcd\Dosdrv\CTLOAD
  C:\Progra~1\Sbcd\Dosdrv\SBIDE.SYS /D:MSCD001
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```


Se você for para o modo MS-DOS modificando as propriedades do aviso do DOS e selecionando uma nova configuração, será preciso acrescentar as seguintes linhas ao arquivo AUTOEXEC.BAT:

```
C:\Progra~1\Sbcd\CTLOAD
  C:\Progra~1\Sbcd\Drv\SBIDE.SYS  /D:MSCD001 /V
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```

Se o nome de arquivo de seu diretório-alvo tiver mais de oito caracteres (isto é, se você estiver usando o recurso de nomes de arquivo longos do Windows 95), o nome do arquivo precisará ser encurtado conforme as necessidades do DOS, por exemplo: se seu diretório-alvo for "Program Files", será preciso indicá-lo como PROGRA~1, porque o MS-DOS é restrito quanto ao comprimento admissível dos nomes de arquivo e de diretório. As definições **/P:*xxx,xx*** podem diferir dependendo do dispositivo ao qual a unidade de CD ROM está conectada.

Instalação do software no DOS/Windows 3.1

Esta seção fornece instruções para a instalação do software de CD ROM em um sistema DOS/Windows 3.1.

Instalação do software de CD ROM

O software de instalação do CD ROM inclui dois drivers para controle da unidade de CD ROM.

Para instalar o software de CD ROM, faça o seguinte:

1. Coloque o disco de instalação do CD ROM na unidade de disco flexível.
2. No aviso do DOS, digite **A:** ou **B:** e aperte a tecla ENTER. Digite **INSTALL** e aperte a tecla ENTER.
3. Aperte a tecla F2 para visualizar o arquivo LEIA-ME. Quando terminar, aperte ESC para voltar para o menu principal.
4. Aperte a tecla ENTER para iniciar a instalação.
5. O programa de instalação solicita o nome do diretório do software da unidade de CD ROM. O padrão é **C:\SBCD**. Aceite o padrão ou siga as instruções na tela para usar outro diretório.

6. O driver MSCDEX.EXE é necessário à unidade de CD ROM. Quando for solicitado, selecione a localização do driver e aperte a tecla ENTER.
7. Selecione o endereço de E/S atual de sua porta IDE: 1F0 (primeira alternativa: placa controladora do disco rígido IDE); 170 (segunda alternativa: porta IDE secundária na placa); 1E8 (terceira alternativa); 168 (quarta alternativa).

Porta IDE	Endereço de E/S	IRQ
Primary	1F0	14
Secondary	170	15
Tertiary	1E8	11
Quaternary	168	10

8. Selecione a definição de IRQ atual de sua porta IDE: 14 (primeira alternativa); 15 (segunda alternativa); 11 (terceira alternativa); 10 (quarta alternativa).
9. Uma vez concluída a instalação, reinicialize o sistema para que as alterações sejam efetivadas.

Manual del Usuario

24x IDE CD-ROM

Introducción

La unidad 24x IDE CD-ROM que ha adquirido proporciona a su equipo una capacidad CD-ROM de alto desempeño. Esta unidad de CD-ROM permite velocidades de transferencia de datos de hasta 3.600 KB por segundo y tiempos de acceso de 100 milisegundos o mejores.

Información más reciente

El archivo README (LÉAME) contenido en el disco de instalación "CD-ROM Installation Disk" contiene la información más reciente y cambios que no hayan estado disponibles al momento de imprimir este manual. Recomendamos leer ese archivo antes de continuar.

Para ver el archivo en Windows 95:

1. Inicie Windows 95
2. Inserte el disco en la unidad de disco correspondiente.
3. Abra la ventana "Mi PC" haciendo doble clic en el icono del mismo nombre.
4. Haga doble clic en el icono de la unidad de disco que corresponda al paso 2. El archivo README (LÉAME) aparecerá dentro de la carpeta.
5. Haga doble clic en el archivo README (LÉAME). Se abrirá el bloc de notas de Windows 95 y mostrará el contenido de este archivo.

Para ver el archivo en DOS:

1. Inicie su equipo.
2. Inserte el disco en la unidad de disco correspondiente.
3. Trasládese a la unidad correspondiente que contenga el archivo. Por ejemplo, escriba **A:** y presione la tecla ENTRAR para pasar a esta unidad.
4. Escriba README y presione la tecla ENTRAR. Aparecerá en pantalla el contenido del archivo.

Requisitos de sistema

Para utilizar la unidad 24x IDE CD-ROM y el software de Creative Labs se necesita:

- ❑ Un equipo IBM compatible Pentium de 100 MHz o superior
- ❑ 1 MB de espacio de almacenamiento en el disco duro
- ❑ MS-DOS versión 6.2x
- ❑ Microsoft Windows 95, o bien Windows 3.1x o posterior
- ❑ Un compartimiento de 5,25 pulgadas de altura media disponible (para la unidad de CD-ROM)
- ❑ Altavoces o auriculares
- ❑ Un conector Enhanced IDE disponible en la placa madre

Es posible que la unidad de CD-ROM funcione en un equipo PC más lento o con un interfaz ISA/VL-Bus, sin embargo, el tiempo de acceso y la velocidad de transferencia pueden verse reducidas.

Copia de seguridad del disco

Antes de comenzar, asegúrese de hacer una copia de seguridad del disco original y utilice esta copia para todas las operaciones, manteniendo el original en un lugar seguro.

1

Instalación de 24x IDE CD-ROM

24x IDE CD-ROM puede instalarse en el equipo PC enchufando la unidad a un conector Enhanced IDE disponible en la placa madre.

Es posible que la unidad de CD-ROM funcione con un interfaz ISA/VL-Bus, sin embargo, el tiempo de acceso y la velocidad de transferencia pueden verse reducidos.

Instalación de la unidad de CD-ROM

Es posible que necesite un destornillador Phillips (en cruz) para quitar la cubierta del equipo PC y para instalar la unidad 24x IDE CD-ROM dentro del compartimiento correspondiente.

Antes de quitar la cubierta del equipo PC, toque una superficie de metal conectada a tierra para descargar la electricidad estática que lleve en el cuerpo. Si se descarga electricidad estática en los componentes electrónicos se puede dañar los circuitos del equipo y la unidad de CD-ROM. Descargue la electricidad estática a tierra *antes* de tocar la unidad.

Cuando manipule los discos compactos, sujételos por los bordes o por el orificio del centro y no toque la superficie de los mismos.

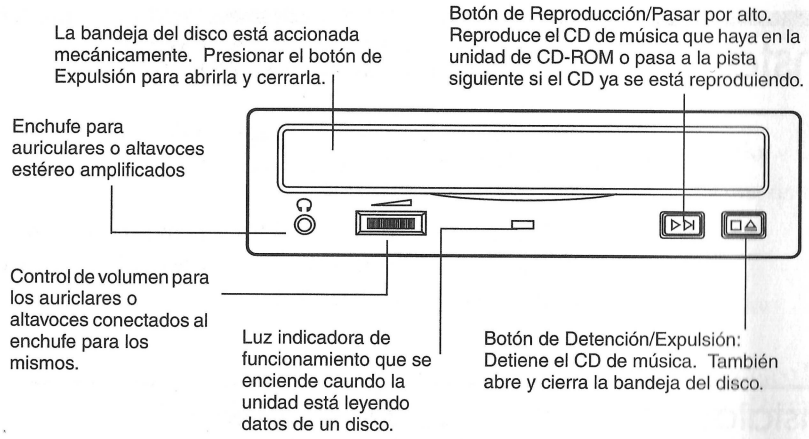

Figura 1-3: Panel frontal de la unidad de CD-ROM (la unidad adquirida puede variar ligeramente de la ilustrada).

Para instalar la unidad de CD-ROM:

1. Apague el equipo PC y el monitor. Desconecte el equipo PC del tomacorriente. Desconecte el monitor del equipo PC y déjelo a un lado.
2. Después de quitar la cubierta del equipo, quite la cubierta de uno de los compartimiento disponibles para instalar la unidad de CD-ROM.
   La mayoría de los equipos tienen uno o más compartimientos disponibles debajo o encima de la unidad de discos flexibles. La cubierta de estos compartimientos puede quitarse haciendo presión o destornillando uno o más tornillos.

3. Conecte el cable de datos a la unidad de CD-ROM. El conector del cable de datos está diseñado para enchufarse de una manera solamente en la unidad de CD-ROM. Si primero no entra con facilidad, inviértalo e intente nuevamente.

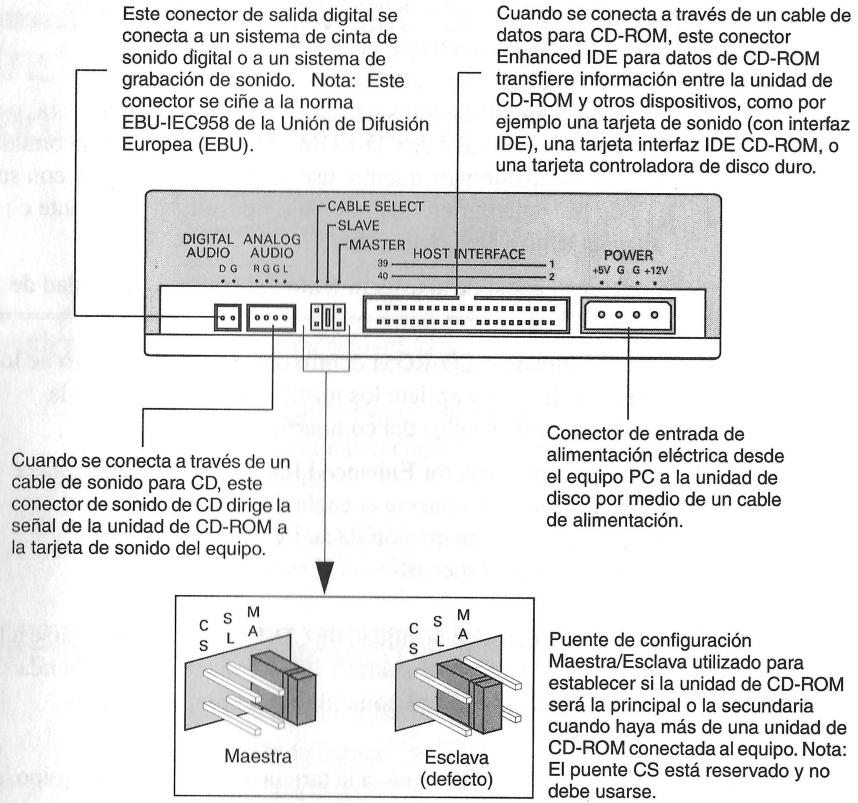

Figura 1-4: Panel posterior de la unidad de CD-ROM.

4. Conecte el cable de sonido a la unidad de CD-ROM si es que tiene una tarjeta de sonido instalada en su sistema.
   El conector del cable de sonido tiene un mecanismo de fijación para la unidad de CD-ROM.
   El conector del extremo opuesto se enchufa en la tarjeta de sonido.
   Haga pasar los cables a través de la abertura frontal del compartimiento a medida que introduce la unidad de CD-ROM en el equipo PC.

El cable de sonido que se incluye con el kit 24x IDE CD-ROM se utiliza para conectarlo a una tarjeta de sonido Sound Blaster. Consulte a un distribuidor local para obtener el cable adecuado para conectar la unidad a una tarjeta de sonido diferente.

5. Inserte cuidadosamente la unidad de CD-ROM en el compartimiento correspondiente.
   Algunos compartimientos necesitan rieles de montaje para los costados de la unidad de CD-ROM. Si la unidad no se acomoda fácilmente al compartimiento, use los rieles que vienen con su PC. Si no hubiera rieles disponibles, consulte al fabricante o a un distribuidor para obtenerlos.
6. Conecte el cable de abastecimiento del equipo a la unidad de CD-ROM.
7. Fije la unidad de CD-ROM dentro del equipo por medio de los tornillos. Inserte y apriete los tornillos (que vienen con la unidad) a ambos lados del compartimiento.
8. Encuentre un conector Enhanced IDE disponible en la placa madre de su PC y conecte el cable de datos de la unidad. Consulte la documentación de su PC para obtener más información al respecto.

El cable de datos de la unidad de CD-ROM debe conectarse a la unidad y al conector Enhanced IDE de manera que la banda identificada con colores coincida con el pin 1 en ambos conectores.

9. Conecte el cable de sonido a la tarjeta de sonido de su equipo, si la hubiera.
10. Vuelva a instalar la cubierta del equipo PC, reconecte el monitor, enchúfelos al abastecimiento y enciéndalos.

2

Instalación del software para la unidad de CD-ROM

Se incluyen programas de instalación tanto para Windows 95 como para Windows 3.1/DOS.

Instalación en Windows 95

La unidad de CD-ROM funciona correctamente en Windows 95 una vez que se la conecta al enchufe Enhanced IDE disponible en la placa madre del equipo PC.

Use el disco de instalación para la unidad de CD-ROM si desea usar la unidad en el modo MS-DOS.

Instalación del software para la unidad de CD-ROM

Para instalar el software 24x IDE CD-ROM:

1. Encienda su equipo PC.
2. Al iniciarse Windows 95, seleccione el botón de la barra de tareas. Aparecerá el menú Inicio.
3. Elija *Ejecutar...* en el menú Inicio. Aparecerá el cuadro de diálogo correspondiente.
4. Inserte el disco de instalación de la unidad de CD-ROM en la unidad de disco correspondiente.
5. En el cuadro de texto del cuadro de diálogo Ejecutar, escriba **A:\SETUP** (instalar) (o bien **B:\SETUP**) y haga clic en *Aceptar*. El programa de instalación preparará al Asistente de instalación para que lo guíe a través del proceso.
6. Aparece el archivo README.TXT (LÉAME). Lea este archivo antes de proceder con la instalación.

7. Elija *Siguiente*. Aparecerá el cuadro de diálogo para elegir la ubicación de destino. La trayectoria predeterminada es **C:\Program Files\Sbcd\.** Para cambiar el directorio de destino, elija *Examinar.*
8. Cuando la trayectoria de destino sea la correcta, elija *Siguiente*. El programa de instalación copiará los archivos a su PC. Aparecerá el cuadro de diálogo para seleccionar dispositivos.
9. Seleccione el dispositivo que se haya conectado a la unidad de CD-ROM.
   - ❑ Elija "Tarjeta controladora de disco duro IDE" si se ha conectado en serie la unidad de CD-ROM al puerto primario.
   - ❑ Elija "Puerto IDE secundario incorporado" si se ha conectado la unidad de CD-ROM a un puerto IDE secundario disponible en la placa madre del equipo
   - ❑ Elija "Tarjeta Plug and Play" si se ha conectado la unidad a una tarjeta interfaz Plug and Play.
   - ❑ Elija "Tarjeta que no sea Plug and Play" si se ha conectado la unidad a una tarjeta interfaz que no sea de tipo Plug and Play.
10. Aparecerá el cuadro de diálogo que indica la finalización de la configuración.
11. Elija *Finalizar* para reiniciar el equipo PC.

Uso de 24x IDE CD-ROM en el modo MS-DOS

Bajo el modo MS-DOS, necesitará que se carguen los controladores para el DOS. El programa de instalación del disco de instalación de la unidad de CD-ROM modificará el archivo DOSSTART.BAT ubicado en el directorio Windows para que cargue el controlador de la unidad de CD-ROM cuando apague el equipo para reiniciarse en el modo MS-DOS.

Se agregan los siguientes renglones al archivo DOSSTART.BAT:

```
C:\Progra~1\Sbcd\Dosdrv\CTLOAD
  C:\Progra~1\Sbcd\Dosdrv\SBIDE.SYS /D:MSCD001
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```


Si elige ir al modo MS-DOS cambiando las propiedades del mensaje de MS-DOS y eligiendo una nueva configuración, necesitará agregar los siguientes renglones al archivo AUTOEXEC.BAT:

```
C:\Progra~1\Sbcd\CTLOAD
  C:\Progra~1\Sbcd\Drv\SBIDE.SYS  /D:MSCD001 /V
  /P:170,15
C:\windows\Command\MSCDEX /D:MSCD001 /V /M:8
```

Si el archivo de su directorio de destino contiene más de ocho caracteres (en el caso de usar la característica de nombres de archivo extensos de Windows 95), habrá que acortar el nombre de archivo, como se requiere en DOS. Por ejemplo, si el directorio de destino es Arquiros de Programas, entonces deberá hacerle referencia como PROGRA~1. Esto se debe a que MS-DOS tiene restricciones en cuanto al largo de los nombres de archivos y directorios.
Los parámetros **/P:*xxx,xx*** pueden ser diferentes dependiendo del dispositivo al cual esté conectada la unidad de CD-ROM.

Instalación del software en DOS/Windows 3.1

Esta sección proporciona las instrucciones para instalar el software para la unidad de CD-ROM en un sistema DOS/Windows 3.1.

Instalación del software para la unidad de CD-ROM

El software de instalación del CD-ROM incluye dos controladores para la unidad de CD-ROM.

Para instalar el software de la unidad de CD-ROM:

1. Inserte el disco de instalación de la unidad de CD-ROM en la unidad de disco correspondiente.
2. En el mensaje del DOS, escriba **A**: o bien **B**: y presione la tecla ENTRAR. Escriba **INSTALL** (instalar) y presione la tecla ENTRAR.
3. Presione la tecla F2 para leer el archivo de instrucciones README. Al finalizar la lectura, presione la tecla ESC para regresar al menú principal.
4. Presione la tecla ENTRAR para comenzar la instalación.

5. El programa de instalación solicitará el nombre del directorio para el software de la unidad de CD-ROM. El nombre y ubicación predeterminados es **C:\SBCD**. Acéptelos o bien siga las instrucciones que aparecen en la pantalla para cambiarlos.
6. Para operar la unidad de CD-ROM se requiere usar el controlador MSCDEX.EXE. Cuando aparezca el mensaje de solicitud correspondiente, seleccione la ubicación del controlador y presione la tecla ENTRAR.
7. Seleccione la dirección de E/S actual del puerto IDE de su PC: 1F0 (Primaria: tarjeta controladora de unidad de disco duro IDE); 170 (Secundaria: puerto IDE secundario incorporado); 1E8 (Terciaria); 168 (Cuaternaria).

Puerto IDE	Dirección de E/S	IRQ
Primary	1F0	14
Secondary	170	15
Tertiary	1E8	11
Quaternary	168	10

8. Seleccione la configuración IRQ actual del puerto IDE: 14 (Primaria); 15 (Secundaria); 11 (Terciaria); 10 (Cuaternaria).
9. Cuando finalice la instalación, apague y vuelva a encender su equipo para que tengan efecto los cambios realizados.